

TITLE: SCREWDRIVER HEADS CHAMBER FOR A PRECISE
SCREWDRIVER

FIELD OF THE INVENTION

This invention relates to a chamber of a screwdriver to accommodate a stem
5 and screwdriver heads in a secure method, and a cover is pivotally connected to
an outer end of a handle.

BACKGROUND OF THE INVENTION

There are plenty of screwdrivers on the market. A conventional
screwdriver has a chamber in the handle, which has a notch at one side and is
10 covered by a cap. By opening the cap, screwdriver heads in the chamber are
free to take away. The screwdriver heads are secured on a shaft, which then are
secured on a threaded cap. The shaft is extending through the cap and
connected with a knob. By turning the knob, the shaft is turning simultaneously
so that a user may choose a desired head. However, in order to pick up the head,
15 the user has to stretch into the notch with their finger, and the cap is in a loose
status, which may be lost.

Another conventional screwdriver has a hole at the rear end of a handle with
a cover thereon. A screwdriver head can slide out from the hole. There are
some shortcomings of this design. One is that the cover may be misplaced
20 easily.

SUMMARY OF THE INVENTION

It is the primary object of the present invention to provide a screwdriver
heads chamber for a precise screwdriver, which saves space and is easy to
operate.

It is another object of the present invention to provide a screwdriver heads chamber for a precise screwdriver, which secures all screwdriver heads in a chamber of a handle.

It is a further object of the present invention to provide a screwdriver heads
5 chamber for a precise screwdriver, which is inexpensive in manufacture.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is an exploded view of the present invention;

FIG. 2 is a side view of the present invention, partially sectioned, and

FIG. 3 is an enlarged view of a circle A from FIG. 2.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

As shown in FIGS. 1 and 2, the present invention comprises a handle 1, a stem 2 and a cover 3. The handle 1 has an internal chamber 11 to accommodate the stem 2 and screwdriver heads 4. One end of the handle 1 is a driving end 5 while the other end is interconnected with the chamber 11 and pivotally connected to the cover 3.

The chamber 11 is a hollow barrel with an inner end and an outer end. The outer end of the chamber 11 is provided with a groove 111. The stem 2 also has an inner end and an outer end corresponding to the chamber 11 of the handle 1. 10 The inner end of the stem 2 is in a reverse cone-shaped disc 21. The disc 21 has an outer diameter corresponding to the inner diameter of the inner end of the chamber 11.

The stem 2 comprises a plurality of longitudinal partitions 22. The partitions 22 have an outer diameter that is smaller than the inner diameter of the chamber 11. 15 11.

The cover 3 has a barrel 31 extending towards one end thereof. The barrel 31 has an outer diameter corresponding to the inner diameter of the chamber 11. A plurality of slots 311 are formed on the barrel 31 to produce a flexibility of the barrel 31. A ridge 312 is formed on the barrel 31 and corresponding to the 20 groove 111 of the chamber 11.

The disc 21 of the stem 2 is secured into the chamber 11 of the handle 1, as shown in FIGS. 2 and 3. All screwdriver heads 4 are placed in between the partitions 22 of the stem 2 and the chamber 11. The barrel 31 of the cover 3 is inserted into the chamber 11 with the ridge 312 engaging with the groove 111. 25 This secures the cover 3 to the outer end of the chamber 11 of the handle 1. The cover 3 is rotatably coupled to the handle 1, which is not easy to depart from the

handle 1.

THIS PAGE BLANK (USPTO)